

12471400 LIND COULEE WASTEWAY AT STATE ROUTE 17, NEAR WARDEN, WA

WATER-QUALITY RECORDS

LOCATION.--Lat 47°20'00", long 119°08'57", in NW $\frac{1}{4}$ SW $\frac{1}{4}$, sec. 35, T.18 N., R.29 E., Grant County, Hydrologic Unit 17020015, on left bank, 0.6 mi downstream from state route 17 road crossing, and 5 mi northwest of Warden.

PERIOD OF RECORD.--November 1991 to March 2001, July 2002 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: April 1994 to September 1995, July 1997 to June 1998, January 1999 to March 2001.

REMARKS.--Station was a Central Columbia Plateau National Water-Quality Assessment Program (NAWQA) surface-water quality trend site from April 1997 to March 2001.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum, 24.5°C (rounded), July 24, 1994; minimum recorded, 1.0°C (rounded), Jan. 10, 1995.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003

Date	Time	Gage height, feet (00065)	Instantaneous discharge, cfs (00061)	Turbidity white light, det ang 90+/-30 degrees NTU (63675)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unftrd field, std units (00400)	Specific conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Alkalinity, wat flt inc tit field, mg/L as CaCO ₃ (39086)	Bicarbonate, wat flt incr titr., field, mg/L (00453)
JUL 02...	1300	--	--	--	742	10.9	116	8.3	268	21.1	17.2	--	--
AUG 26...	0930	2.78	245	3.1	734	9.4	102	8.2	334	22.2	17.5	129	155
28...	1000	--	--	--	--	--	--	--	--	--	--	--	--
28...	1020	--	--	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003—CONTINUED

Date	Carbonate, wat flt incr titr., field, mg/L as N (00452)	Ammonia + org-N, water, unftrd, mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water, fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Particulate nitrogen, susp, water, mg/L (49570)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, unftrd mg/L (00665)	Total nitrogen, water, unftrd mg/L (00600)	Total carbon, suspnd sediment total, mg/L (00694)	Inorganic carbon, suspnd sediment total, mg/L (00688)	Organic carbon, suspnd sediment total, mg/L (00689)	Organic carbon, water, fltrd, mg/L (00681)
JUL 02...	--	1.7	.05	1.38	.016	--	.04	.34	3.1	--	--	--	--
AUG 26...	.0	.29	<.04	2.15	E.005	.04	.03	.065	2.4	.4	<.1	.4	2.1
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003—CONTINUED

Date	Biomass periphyton, ashfree dry mass g/m ² (49954)	Biomass periphyton, ashfree dry wt, DTH, g/m ² (63766)	Biomass periphyton, ash weight, DTH, g/m ² (63765)	Biomass periphyton, ash biomass weight, DTH, g/m ² (00572)	Biomass periphyton, dry weight, DTH, g/m ² (63767)	Periphyton biomass weight, DTH, g/m ² (00573)	Chlorophyll a periphyton, DTH, CF meth mg/m ² (63763)	Chlorophyll a periphyton, DTH, CF meth mg/m ² (63764)	Pheophytin a, periphyton, mg/m ² (62359)	Pheophytin a, periphyton, mg/m ² (62360)	Pheophytin a, phytoplankton, ug/L (62360)	Chlorophyll a periphyton, chromophoro, mg/m ² (70957)	Chlorophyll a phytoplankton, fluoro, ug/L (70953)	Suspended sediment concentration mg/L (80154)
JUL 02...	--	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG 26...	--	--	--	--	--	--	--	--	--	--	2.7	--	2.6	11
28...	42.5	--	800	--	844.8	--	--	--	68	--	134	--	--	--
28...	--	41.0	1,520	--	1,560	--	15.7	21.3	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003—CONTINUED

Date	Suspended sediment discharge, tons/d (80155)
JUL 02...	--
AUG 26...	7.3
28...	--
28...	--

CRAB CREEK BASIN

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WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Instantaneous discharge, cfs (00061)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO ₃ (00900)	Noncarb hardness, wat flt field, mg/L as CaCO ₃ (00904)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)
OCT 07...	1440	198	728	12.4	130	8.5	348	23.8	15.4	120	--	30.3	11.8
FEB 04...	1350	58	735	--		8.8	573	5.7	8.1	200	--	46.3	19.4
APR 07...	1410	310	736	11.4	108	8.3	203	18.4	11.3	88	7	23.5	7.02
JUN 09...	1310	355	729	12.3	127	8.1	249	19.7	14.9	96	.0	25.8	7.73
JUL 08...	1240	257	735	11.0	120	8.3	295	25.3	17.8	110	1	28.3	9.38

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Potassium, water, fltrd, mg/L (00935)	Sodium adsorption ratio (00931)	Sodium, water, fltrd, mg/L (00930)	Sodium, percent (00932)	Alkalinity, wat flt fxd end lab, mg/L as CaCO ₃ (29801)	Alkalinity, wat flt inc tit field, mg/L as CaCO ₃ (39086)	Bicarbonate, wat flt incr. titr., mg/L (00453)	Carbonate, wat flt incr. titr., mg/L (00452)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)
OCT 07...	3.13	.8	21.1	26	--	--	--	--	6.70	.4	26.2	27.5	--
FEB 04...	6.18	2	49.6	35	204	--	--	--	15.7	.7	40.5	65.9	387
APR 07...	1.62	.4	9.46	19	--	81	98	.0	3.47	<.2	9.49	15.0	120
JUN 09...	2.26	.6	12.6	22	--	96	116	.0	4.06	.2	14.0	16.9	146
JUL 08...	2.59	.7	16.1	24	--	109	130	.0	5.19	.3	19.1	22.4	176

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Residue water, fltrd, tons/acre-ft (70303)	Residue water, fltrd, tons/d (70302)	Residue evap. at 180degC wat flt mg/L (70300)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, unfltrd mg/L (00665)	Total nitrogen, water, unfltrd mg/L (00600)	Iron, water, fltrd, ug/L (01046)	Manganese, water, fltrd, ug/L (01056)	2,6-Diethyl-aniline water fltrd 0.7u GF ug/L (82660)	CIAT, water, fltrd, ug/L (04040)
OCT 07...	--	--	213	.18	.020	2.15	.032	.050	2.3	11	6.8	<.006	E.003
FEB 04...	.53	61.2	388	.25	.010	4.66	.046	.067	4.9	16	20.7	<.006	E.009
APR 07...	.17	104	124	.26	.020	.560	.018	.037	.82	7	15.1	<.006	<.006
JUN 09...	.20	143	149	.26	.020	1.01	.030	.052	1.3	7	17.0	<.006	E.005
JUL 08...	.25	127	183	.21	.010	1.70	.024	.050	1.9	10	18.5	<.006	E.005

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Acetochlor, water, fltrd, ug/L (49260)	Alachlor, water, fltrd, ug/L (46342)	alpha-HCH-d6, surrog, wat flt 0.7u GF percent recovery (91065)	Atrazine, water, fltrd, ug/L (39632)	Azinphos-methyl, water, fltrd, ug/L (82686)	Benzofuran, water, fltrd, ug/L (82673)	Butylate, water, fltrd, ug/L (04028)	Carbaryl, water, fltrd, ug/L (82680)	Carboxylic acid, water, fltrd, ug/L (82674)	Chlorpyrifos, water, fltrd, ug/L (38933)	cis-Permethrin, water, fltrd, ug/L (82687)	Cyanazine, water, fltrd, ug/L (04041)	
OCT 07...	<.006	<.004	<.005	104	.009	<.050	<.010	<.002	<.041	<.020	<.005	<.006	<.018
FEB 04...	<.006	<.005	<.005	98.2	.010	<.050	<.010	<.004	<.041	<.020	<.005	<.006	<.018
APR 07...	<.006	<.005	<.005	97.3	.011	<.050	<.010	<.004	<.041	<.020	<.005	<.006	<.018
JUN 09...	<.006	<.005	<.005	95.8	.010	E.026	<.010	<.004	<.041	<.020	.006	<.006	<.018
JUL 08...	<.006	<.005	<.005	86.1	.011	<.050	<.010	<.004	<.041	<.020	<.005	<.006	<.018

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WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	DCPA, water fltrd 0.7u GF ug/L (82682)	Desulf- inyl fipro- nil, water, fltrd, ug/L (62170)	Diazi- non-d10 surrog. wat fit 0.7u GF percent recovery (91063)	Diel- drin, water, fltrd, ug/L (39381)	Disul- foton, water, fltrd, ug/L (82677)	EPTC, water, fltrd 0.7u GF ug/L (82668)	Ethal- flur- alin, water, fltrd 0.7u GF ug/L (82663)	Etho- prop, water, fltrd 0.7u GF ug/L (82672)	Desulf- inyl- fipro- nil amide, wat fit ug/L (62169)	Fipro- nil sulfide water, fltrd, ug/L (62167)	Fipro- nil sulfone water, fltrd, ug/L (62168)	Fipro- nil, water, fltrd, ug/L (62166)	
OCT 07...	<.003	<.004	<.005	109	<.005	<.02	<.002	<.009	<.005	<.009	<.005	<.005	<.007
FEB 04...	<.003	<.012	<.005	110	<.009	<.02	<.004	<.009	<.005	<.029	<.013	<.024	<.016
APR 07...	.011	<.012	<.005	114	<.009	<.02	<.004	<.009	<.005	<.029	<.013	<.024	<.016
JUN 09...	.006	<.012	<.005	120	<.009	<.02	.120	E.009	<.005	<.029	<.013	<.024	<.016
JUL 08...	.004	<.012	<.005	97.0	<.009	<.02	<.004	<.009	<.005	<.029	<.013	<.024	<.016

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Fonofos water, fltrd, ug/L (04095)	Lindane water, fltrd, ug/L (39341)	Linuron water fltrd 0.7u GF ug/L (82666)	Mala- thion, water, fltrd, ug/L (39532)	Methyl para- thion, water, fltrd 0.7u GF ug/L (82667)	Metola- chlor, water, fltrd, ug/L (39415)	Metri- buzin, water, fltrd, ug/L (82630)	Moli- nate, water, fltrd 0.7u GF ug/L (82671)	Naprop- amide, water, fltrd 0.7u GF ug/L (82684)	p,p'- DDE, water, fltrd, ug/L (34653)	Para- thion, water, fltrd, ug/L (39542)	Peb- ulate, water, fltrd 0.7u GF ug/L (82669)	Pendi- meth- alin, water, fltrd 0.7u GF ug/L (82683)
OCT 07...	<.003	<.004	<.035	<.027	<.006	E.005	<.006	<.002	<.007	<.003	<.010	<.004	<.022
FEB 04...	<.003	<.004	<.035	<.027	<.015	<.013	E.005	<.003	<.007	<.003	<.010	<.004	<.022
APR 07...	<.003	<.004	<.035	<.027	<.015	<.013	.010	<.003	<.007	<.003	<.010	<.004	<.022
JUN 09...	<.003	<.004	E.013	E.017	<.015	.134	.016	<.003	<.007	<.003	<.010	<.004	.033
JUL 08...	<.003	<.004	<.035	<.027	<.015	.015	<.006	<.003	<.007	<.003	<.010	<.004	.028

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Phorate water fltrd 0.7u GF ug/L (82664)	Promo- ton, water, fltrd, ug/L (04037)	Propy- zamide, water, fltrd 0.7u GF ug/L (82676)	Propa- chlor, water, fltrd 0.7u GF ug/L (04024)	Propanil, water, fltrd 0.7u GF ug/L (82679)	Propar- gite, water, fltrd 0.7u GF ug/L (82685)	Sima- zine, water, fltrd 0.7u GF ug/L (04035)	Tebu- thiuron, water fltrd 0.7u GF ug/L (82670)	Terba- cil, water, fltrd 0.7u GF ug/L (82665)	Terbu- fos, water, fltrd 0.7u GF ug/L (82675)	Thio- bencarb, water fltrd 0.7u GF ug/L (82681)	Tri- flur- alin, water, fltrd 0.7u GF ug/L (82661)	
OCT 07...	<.011	<.01	<.004	<.010	<.011	<.02	<.005	<.02	<.034	<.02	<.005	<.002	E.004
FEB 04...	<.011	<.02	<.004	<.025	<.011	<.02	<.005	<.02	<.034	<.02	<.010	.004	<.009
APR 07...	<.011	<.01	<.004	<.025	<.011	<.02	.024	<.02	<.034	<.02	<.010	<.002	<.009
JUN 09...	<.011	<.01	<.004	<.025	<.011	<.02	<.005	<.02	<.034	<.02	<.010	<.002	E.004
JUL 08...	<.011	<.01	<.004	<.025	<.011	<.02	<.005	<.02	<.034	<.02	<.010	<.002	<.009